TaRDIS

Discover TaRDIS use case:
SMART FACTORIES
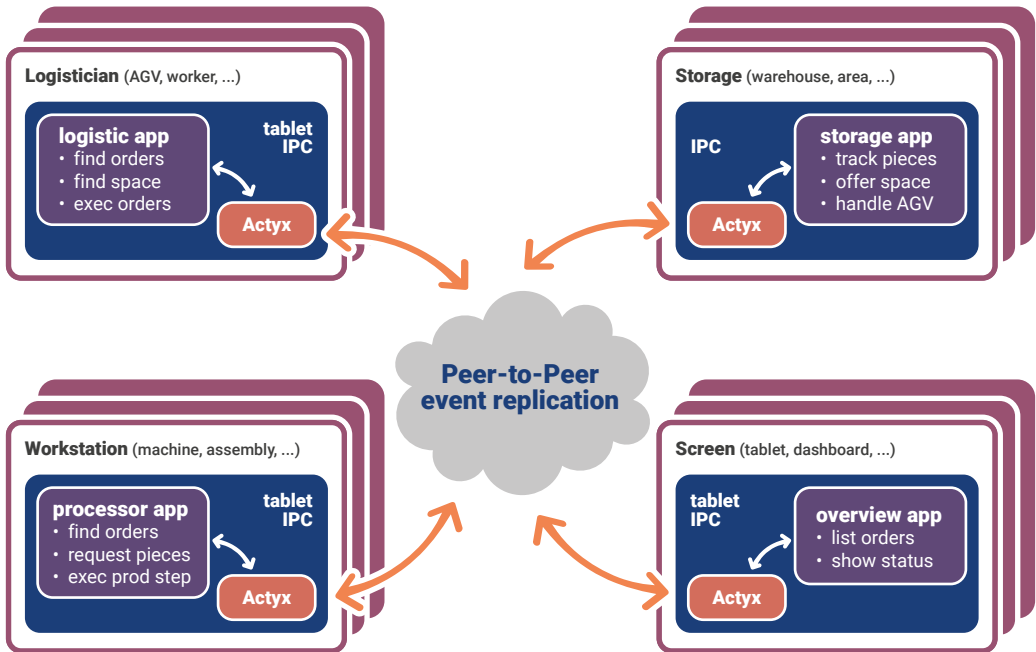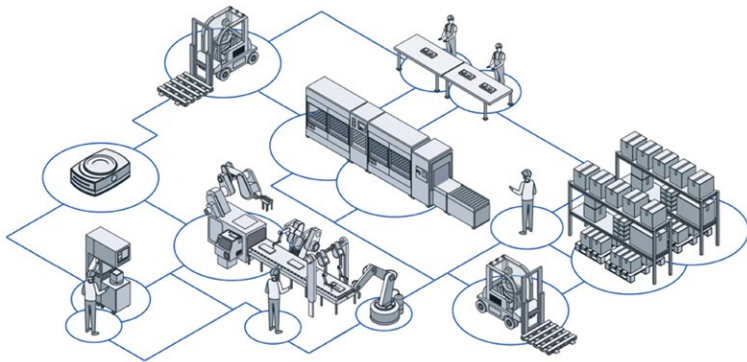**(Highly resilient factory shop floor digitalisation)**

CONCEPT

We facilitate peer-to-peer cooperation between machines, humans, and material by giving the factory automation developer the tools to do this reliably, i.e. providing resilience and correctness. To this end, we outfit intelligent agents with local-first data storage, communication, and computation.

BENEFITS

Next-generation factories can much more quickly react to changing market demands (**agility**) down to variability between production orders or lot size one (**flexibility**).
All processes become not only fully transparent but intelligently steerable in real-time, allowing stringent **optimization of resource usage and minimizing waste**.

Logistician (AGV, worker, ...)

logistic app
- find orders
- find space
- exec orders

tablet IPC

Actyx

Storage (warehouse, area, ...)

IPC

storage app
- track pieces
- offer space
- handle AGV

Actyx

Peer-to-Peer event replication

Workstation (machine, assembly, ...)

processor app
- find orders
- request pieces
- exec prod step

tablet IPC

Actyx

Screen (tablet, dashboard, ...)

tablet IPC

overview app
- list orders
- show status

Actyx

TaRDIS

Trustworthy And Resilient Decentralised Intelligence For Edge Systems

NOVA SCHOOL OF SCIENCE & TECHNOLOGY

DTU

UNIVERSITY OF OXFORD

HELLENIC REPUBLIC National and Kapodistrian University of Athens

NEW

Actyx

gmv

Caixa Mágica Software

Telefónica

MARTEL innovate

Learn more about TaRDIS on our website:

project-tardis.eu

@tardis-project

@TARDIS_eu